

Application No. National Phase of US03/30304
Amendment dated January 27, 2008
Reply to Office Action of July 26, 2007

2

Docket No.: 61843USN(51035)

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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of preparing an organic food supplement using *Humulus lupulus* (hop) ~~hop~~ acids as an ~~organic food supplement~~ for livestock comprising ~~delivering the hop acids for oral ingestion by mixing the acids~~ the hop acids for oral ingestion with a livestock feed, wherein the hop acids are mixed with the feed in an amount to inhibit ~~certain types of undesirable bacteria including~~ *Ruminococcus albus*, *R. flavefaciens*, *Butyrivibrio fibriosolvens*, *Methanobacterium ruminatum*, various streptococci, Lactobacilli and protozoa including Entodini and Isotricha commonly found in the digestive systems of livestock.
2. (Previously Presented) The method of claim 1 wherein the hop acids as well as their corresponding salts are selected from at least one of the group consisting of alpha acids, beta acids, isoalpha acids, rho-isoalpha acids, tetrahydroisoalpha acids and hexahydroisoalpha acids.
3. (Previously Presented) The method of claim 2 wherein the alpha acids are selected from at least one of the group consisting of humulone, cohumulone, and adhumulone.
4. (Currently Amended) The method of claim 2 wherein the beta acids are selected from at least one of the group consisting of lupulone, colupulone, and adlupulone ~~[[f]]~~.
5. (Currently Amended) The method of claim 1 wherein the ~~amount of~~ hop acid is mixed with the feed results in an amount of 2 parts per million (ppm) of hop acid present in ppm ~~of fluid of the digestive system fluid of livestock~~.
- 6 - 10 (Canceled)
11. (Currently Amended) The method of claim 1 ~~claim 6~~ wherein the livestock is selected from the group consisting of cattle, poultry, horses, pigs, and zoo animals.

DC_234040_1

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3

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12. (Currently Amended) The method of claim 1 ~~wherein further comprising administering the~~ an amount of hop acid mixed with the feed is capable of increasing a the level of propionate in the digestive system ~~fluid~~.

13. (Currently Amended) An animal feed comprising a feed plant selected from at least one of the group consisting of corn, barley, alfalfa, wheat, and sorghum, and

an effective amount of *Humulus lupulus* (hop) ~~hop~~ acid capable of inhibiting certain types of undesirable bacteria commonly found in ~~the~~ digestive systems of livestock.

14. (Currently Amended) The animal feed of claim 13 wherein the effective amount of hop acid mixed with the feed results in ~~in~~ from about 1 parts per million (ppm) ppm to about 30 ppm of hop acid in fluid of the digestive system ~~fluid~~ of the livestock.

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